

5000

035 Rec'd PCT/PTO 06 NOV 2002

Docket No.: PF-0621 USN

Certificate of Mailing

I hereby certify that this correspondence is being deposited with the United States Postal Service as first class mail in an envelope addressed to: Box PCT, Commissioner for Patents, PO Box 2327, Arlington, VA 22202 on October 31, 2002.

By: Joyce Abriam Printed name: Joyce Abriam

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of: Tang et al.

Title: MYOSIN HEAVY CHAIN HOMOLOG

Serial No.: 09/830,914

Filing Date: To Be Assigned

Examiner: To Be Assigned

Group Art Unit: To Be Assigned

Box PCT
Commissioner for Patents
PO Box 2327
Arlington, VA 22202

TRANSMITTAL FEE SHEET

Sir:

Transmitted herewith are the following for the above-identified application:

1. Return Receipt Postcard;
2. Response to Notification of Defective Response (2 pp.);
3. Copy of Notification of Defective Response dated October 4, 2002 (7 pp.);
4. Substitute Submission Under 37 CFR § 1.821-1.825 Sequence Listing (1 pg.);
5. One (1) Substitute CRF diskette containing the Sequence Listing;
6. Paper copy of substitute Sequence Listing (11 pp.); and
7. Certificate under 37 C.F.R. §3.73(b), Revocation of Power of Attorney and Appointment of New Attorneys (2 pp.).

The fee has been calculated as shown below.

X No additional Fee is required.

 Please charge Deposit Account No. **09-0108** in the amount of : \$

The Commissioner is hereby authorized to charge any additional fees required under 37 CFR 1.16 and 1.17, or credit overpayment to Deposit Account No. 09-0108. **A duplicate copy of this sheet is enclosed.**

Respectfully submitted,

INCYTE GENOMICS, INC.

Date: 31 Oct 2002

Diana Hamlet-Cox
Diana Hamlet-Cox
Reg. No. 33,302
Direct Dial Telephone: (650) 845-4639

Customer No.: 27904
3160 Porter Drive
Palo Alto, California 94304
Phone: (650) 855-0555
Fax: (650) 845-4166

Certificate of Mailing

I hereby certify that this correspondence is being deposited with the United States Postal Service as first class mail in an envelope addressed to: Box PCT, Commissioner for Patents, P.O. Box 2327, Arlington, VA 22202 on October 31, 2002.

By: Joyce Abriam Printed: Joyce Abriam

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of: Tang et al.

Title: MYOSIN HEAVY CHAIN HOMOLOG

Serial No.: 09/830,914

Filing Date:

To Be Assigned

Examiner: To Be Assigned

Group Art Unit:

To Be Assigned

Box PCT
Commissioner for Patents
P.O. Box 2327
Arlington, VA 22202

RESPONSE TO NOTIFICATION OF DEFECTIVE RESPONSE

Sir:

In response to the "Notification of Defective Response" mailed by the United States Patent and Trademark Office on October 4, 2002, (copy attached), Applicants submit the document(s) listed below to complete the filing for the above-identified patent application.

1. Substitute Submission Under 37 CFR 1.821-1.825 Sequence Listing (1 pg.);
2. One (1) Substitute CRF diskette containing the Sequence Listing; and
3. Paper copy of substitute Sequence Listing (11 pp.).

The Applicants believe that no fee is due with this communication. However, if the Commissioner determines that additional fees are due or that an excess fee has been paid, the Patent Office is authorized to debit or credit (respectively) Deposit Account No. 09-0108.

Respectfully submitted,

INCYTE GENOMICS, INC.

Date: 31 Oct 2002



Diana Hamlet-Cox

Reg. No. 33,302

Direct Dial Telephone: (650) 845-4639

3160 Porter Drive
Palo Alto, California 94304
Phone: (650) 855-0555
Fax: (650) 849-8886

OCT 1 0 2002



UNITED STATES PATENT AND TRADEMARK OFFICE

Commissioner for Patents, Box PCT
United States Patent and Trademark Office
Washington, D.C. 20231
www.uspto.gov

| U.S. APPLICATION NUMBER NO. | FIRST NAMED APPLICANT | ATTY. DOCKET NO. |
|-----------------------------|-----------------------|------------------|
| 09/830,914 | Neil C Corley | PF-0621 USN |

| INTERNATIONAL APPLICATION NO. |
|-------------------------------|
|-------------------------------|

PCT/US99/26177

| LA. FILING DATE | PRIORITY DATE |
|-----------------|---------------|
|-----------------|---------------|

11/05/1999

11/05/1998

Incyte Genomics
3160 Porter Drive
Palo Alto, CA 94304

CONFIRMATION NO. 5287

371 FORMALITIES LETTER



OC000000008908126

Date Mailed: 10/04/2002

NOTIFICATION OF DEFECTIVE RESPONSE

The following items have been submitted by the applicant or the IB to the United States Patent and Trademark Office as an Elected Office (37 CFR 1.495):

- U.S. Basic National Fee
- Priority Document
- Biochemical Sequence Diskette
- Biochemical Sequence Listing
- Copy of IPE Report
- Copy of references cited in ISR
- Copy of the International Application
- Copy of the International Search Report
- Oath or Declaration

Applicant's response filed 08/20/2002 is hereby acknowledged. The following requirements set forth in the NOTIFICATION of MISSING REQUIREMENTS mailed 11/13/2001 have not been completed.

The following items **MUST** be furnished within the period set forth below in order to complete the requirements for acceptance under 35 U.S.C. 371:

Applicant is required to complete the response within a time limit of ONE MONTH from the date of this Notification or within the time remaining in the response set forth in the Notification of Missing Requirements, whichever is the longer. No extension of this time limit may be granted under 37 CFR 1.136, but the period for response set in the Notification of Missing Requirements may be extended under 37 CFR 1.136(a).

The following items **MUST** be furnished within the period set forth below:

- The nucleotide and/or amino acid sequence disclosure contained in this application does not comply with the requirements for such a disclosure as set forth in 37 CFR 1.821-1.825 for the following reason(s):

- See attached Raw Sequence Listing Error Report.

FILED
OCT 1 2002

■ APPLICANT MUST PROVIDE:

- An initial or substitute computer readable form (CRF) of the "Sequence Listing."
- An initial or substitute paper copy or compact disc of the "Sequence Listing," as well as an amendment directing its entry into the specification.
- A statement that the contents of the paper or compact disc and the computer readable form are the same and, where applicable, include no new matter, as required by 37 CFR 1.821(e), 1.821(f), 1.821(g), 1.825(b) or 1.825(d).

● For questions regarding compliance to 37 CFR 1.821-1.825 requirements, please contact:

- For Rules Interpretation, call (703) 308-4216
- To Purchase PatentIn Software, call (703) 306-2600
- For PatentIn Software Program Help, call (703) 306-4119 or e-mail at patin21help@uspto.gov or patin3help@uspto.gov

Applicant is reminded that any communications to the United States Patent and Trademark Office must be mailed to the address given in the heading and include the U.S. application no. shown above (37 CFR 1.5)

*A copy of this notice **MUST** be returned with the response.*

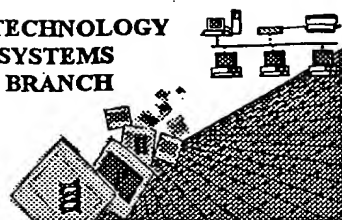
BARBARA A CAMPBELL

Telephone: (703) 305-3631

PART 2 - OFFICE COPY

| U.S. APPLICATION NUMBER NO. | INTERNATIONAL APPLICATION NO. | ATTY. DOCKET NO. |
|-----------------------------|-------------------------------|------------------|
| 09/830,914 | PCT/US99/26177 | PF-0621 USN |

BIOTECHNOLOGY
SYSTEMS
BRANCH



RAW SEQUENCE LISTING ERROR REPORT

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number: 09/830,914B
Source: Per/09 Rush
Date Processed by STIC: 8/26/2002

THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.

PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:

- 1) INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANT, WITH A NOTICE TO COMPLY or,
- 2) TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A NOTICE TO COMPLY

FOR CRF SUBMISSION QUESTIONS, PLEASE CONTACT MARK SPENCER, 703-308-4212.

FOR SEQUENCE RULES INTERPRETATION, PLEASE CONTACT ROBERT WAX, 703-308-4216.

PATENTIN 2.1 e-mail help: patin21help@uspto.gov or phone 703-306-4119 (R. Wax)

PATENTIN 3.0 e-mail help: patin3help@uspto.gov or phone 703-306-4119 (R. Wax)

TO REDUCE ERRORED SEQUENCE LISTINGS, PLEASE USE THE CHECKER VERSION 3.1 PROGRAM, ACCESSIBLE THROUGH THE U.S. PATENT AND TRADEMARK OFFICE WEBSITE. SEE BELOW FOR ADDRESS:

<http://www.uspto.gov/web/offices/pac/checker>

Applicants submitting genetic sequence information electronically on diskette or CD-Rom should be aware that there is a possibility that the disk/CD-Rom may have been affected by treatment given to all incoming mail.

Please consider using alternate methods of submission for the disk/CD-Rom or replacement disk/CD-Rom.

Any reply including a sequence listing in electronic form should NOT be sent to the 20231 zip code address for the United States Patent and Trademark Office, and instead should be sent via the following to the indicated addresses:

1. EFS-Bio (<<http://www.uspto.gov/ebc/efs/downloads/documents.htm>> , EFS Submission User Manual - ePAVE)
2. U.S. Postal Service: U.S. Patent and Trademark Office, Box Sequence, P.O. Box 2327, Arlington, VA 22202
3. Hand Carry directly to:
U.S. Patent and Trademark Office, Technology Center 1600, Reception Area, 7th Floor, Examiner Name, Sequence Information, Crystal Mall One, 1911 South Clark Street, Arlington, VA 22202
Or
U.S. Patent and Trademark Office, Box Sequence, Customer Window, Lobby, Room 1B03, Crystal Plaza Two, 2011 South Clark Place, Arlington, VA 22202
4. Federal Express, United Parcel Service, or other delivery service to: U.S. Patent and Trademark Office, Box Sequence, Room 1B03-Mailroom, Crystal Plaza Two, 2011 South Clark Place, Arlington, VA 22202



puto

RAW SEQUENCE LISTING

DATE: 08/26/2002

PATENT APPLICATION: US/09/830,914B

TIME: 14:34:57

Input Set : A:\pf062lusn_seqlist.txt

Output Set: N:\CRF3\08262002\I830914B.raw

**Does Not Comply
Corrected Diskette Needed**

pp 1,4

*please place prior
application number
directly above
its filing date*

```

4 <110> APPLICANT: INCYTE PHARMACEUTICALS, INC.
5     TANG, Y. Tom
6     CORLEY, Neil C.
7     GORGONE, Gina A.
8     GUEGLER, Karl J.
9     BAUGHN, Mariah R.
11 <120> TITLE OF INVENTION: MYOSIN HEAVY CHAIN HOMOLOG
13 <130> FILE REFERENCE: PF-0621 PCT
C--> 15 <140> CURRENT APPLICATION NUMBER: US/09/830,914B
C--> 16 <141> CURRENT FILING DATE: 2002-08-26
18 <150> PRIOR APPLICATION NUMBER: 09/187,060; unassigned
W--> 19 <151> PRIOR FILING DATE: 1998-11-05; 1998-11-05
21 <160> NUMBER OF SEQ ID NOS: 4
23 <170> SOFTWARE: PERL Program
25 <210> SEQ ID NO: 1
26 <211> LENGTH: 612
27 <212> TYPE: PRT
28 <213> ORGANISM: Homo sapiens
30 <220> FEATURE:
31 <221> NAME/KEY: misc_feature
32 <223> OTHER INFORMATION: Incyte ID No: 1929760CD1
34 <400> SEQUENCE: 1
35 Met Phe Cys Pro Pro Gln Val Ser Cys Ser Leu Ser Leu Met Pro
36 1 5 10
37 Arg Leu Pro Ser Ile Arg His Trp Gln Gly Pro Ser His Pro Gly
38 20 25 30
39 Phe Leu Gly Pro Leu Phe Pro Ile Cys Ser Leu Gln Trp Pro His
40 35 40 45
41 Gly Phe Ser Ala Ile Phe Pro Gly Leu Leu Asp Val Tyr Gly Phe
42 50 55 60
43 Glu Ser Phe Pro Asp Asn Ser Leu Glu Gln Leu Cys Ile Asn Tyr
44 65 70 75
45 Ala Asn Glu Lys Leu Gln Gln His Phe Val Ala His Tyr Leu Arg
46 80 85 90
47 Ala Gln Gln Glu Glu Tyr Ala Val Glu Gly Leu Glu Trp Ser Phe
48 95 100 105
49 Ile Asn Tyr Gln Asp Asn Gln Pro Cys Leu Asp Leu Ile Glu Gly
50 110 115 120
51 Ser Pro Ile Ser Ile Cys Ser Leu Ile Asn Glu Glu Cys Arg Leu
52 125 130 135
53 Asn Arg Pro Ser Ser Ala Arg Gln Leu Gln Thr Arg Ile Glu Thr
54 140 145 150
55 Ala Leu Ala Gly Ser Pro Cys Leu Gly His Asn Lys Leu Ser Arg

```

RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/830,914B

DATE: 08/26/2002

TIME: 14:34:57

Input Set : A:\pf062lusn_seqlist.txt

Output Set: N:\CRF3\08262002\I830914B.raw

| | | | | | | |
|-----|-----------------|---------------------|---------------------|-----|--|-----|
| 56 | | 155 | | 160 | | 165 |
| 57 | Glu Pro Ser Phe | Ile Val Val His Tyr | Ala Gly Pro Val Arg | Tyr | | |
| 58 | | 170 | | 175 | | 180 |
| 59 | His Thr Ala Gly | Leu Val Glu Lys Asn | Lys Asp Pro Ile Pro | | | |
| 60 | | 185 | | 190 | | 195 |
| 61 | Glu Leu Thr Arg | Leu Leu Gln Gln Ser | Gln Asp Pro Leu Leu | Met | | |
| 62 | | 200 | | 205 | | 210 |
| 63 | Gly Leu Phe Pro | Thr Asn Pro Lys Glu | Lys Thr Gln Glu Glu | Pro | | |
| 64 | | 215 | | 220 | | 225 |
| 65 | Pro Gly Gln Ser | Arg Ala Pro Val Leu | Thr Val Val Ser Lys | Phe | | |
| 66 | | 230 | | 235 | | 240 |
| 67 | Lys Ala Ser Leu | Glu Gln Leu Leu Gln | Val Leu His Ser Thr | Thr | | |
| 68 | | 245 | | 250 | | 255 |
| 69 | Pro His Tyr Ile | Arg Cys Ile Lys Pro | Asn Ser Gln Gly Gln | Ala | | |
| 70 | | 260 | | 265 | | 270 |
| 71 | Gln Thr Phe Leu | Gln Glu Glu Val Leu | Ser Gln Leu Glu Ala | Cys | | |
| 72 | | 275 | | 280 | | 285 |
| 73 | Gly Leu Val Glu | Thr Ile His Ile Ser | Ala Ala Gly Phe Pro | Ile | | |
| 74 | | 290 | | 295 | | 300 |
| 75 | Arg Val Ser His | Arg Asn Phe Val Glu | Arg Tyr Lys Leu Leu | Arg | | |
| 76 | | 305 | | 310 | | 315 |
| 77 | Arg Leu His Pro | Cys Thr Ser Ser Gly | Pro Asp Ser Pro Tyr | Pro | | |
| 78 | | 320 | | 325 | | 330 |
| 79 | Ala Lys Gly Leu | Pro Glu Trp Cys Pro | His Ser Glu Glu Ala | Thr | | |
| 80 | | 335 | | 340 | | 345 |
| 81 | Leu Glu Pro Leu | Ile Gln Asp Ile Leu | His Thr Leu Pro Val | Leu | | |
| 82 | | 350 | | 355 | | 360 |
| 83 | Thr Gln Ala Ala | Ala Ile Thr Gly Asp | Ser Ala Glu Ala Met | Pro | | |
| 84 | | 365 | | 370 | | 375 |
| 85 | Ala Pro Met His | Cys Gly Arg Thr Lys | Val Phe Met Thr Asp | Ser | | |
| 86 | | 380 | | 385 | | 390 |
| 87 | Met Leu Glu Leu | Leu Glu Cys Gly Arg | Ala Arg Val Leu Glu | Gln | | |
| 88 | | 395 | | 400 | | 405 |
| 89 | Cys Ala Arg Cys | Ile Gln Gly Gly Trp | Arg Arg His Arg His | Arg | | |
| 90 | | 410 | | 415 | | 420 |
| 91 | Glu Gln Glu Arg | Gln Trp Arg Ala Val | Met Leu Ile Gln Ala | Ala | | |
| 92 | | 425 | | 430 | | 435 |
| 93 | Ile Arg Ser Trp | Leu Thr Arg Lys His | Ile Gln Arg Leu His | Ala | | |
| 94 | | 440 | | 445 | | 450 |
| 95 | Ala Ala Thr Val | Ile Lys Arg Ala Trp | Gln Lys Trp Arg Ile | Arg | | |
| 96 | | 455 | | 460 | | 465 |
| 97 | Met Ala Cys Leu | Ala Ala Lys Glu Leu | Asp Gly Val Glu Glu | Lys | | |
| 98 | | 470 | | 475 | | 480 |
| 99 | His Phe Ser Gln | Ala Pro Cys Ser Leu | Ser Thr Ser Pro Leu | Gln | | |
| 100 | | 485 | | 490 | | 495 |
| 101 | Thr Arg Leu Leu | Glu Ala Ile Ile Arg | Leu Trp Pro Leu Gly | Leu | | |
| 102 | | 500 | | 505 | | 510 |
| 103 | Val Leu Ala Asn | Thr Ala Met Gly Val | Gly Ser Phe Gln Arg | Lys | | |
| 104 | | 515 | | 520 | | 525 |

RAW SEQUENCE LISTING

DATE: 08/26/2002

PATENT APPLICATION: US/09/830,914B

TIME: 14:34:57

Input Set : A:\pf062lusn_seqlist.txt

Output Set: N:\CRF3\08262002\I830914B.raw

```

105 Leu Val Val Trp Ala Cys Leu Gln Leu Pro Arg Gly Ser Pro Ser
106          530          535          540
107 Ser Tyr Thr Val Gln Thr Ala Gln Asp Gln Ala Gly Val Thr Ser
108          545          550          555
109 Ile Arg Ala Leu Pro Gln Gly Ser Ile Lys Phe His Cys Arg Lys
110          560          565          570
111 Ser Pro Leu Arg Tyr Ala Asp Ile Cys Pro Glu Pro Ser Pro Tyr
112          575          580          585
113 Ser Ile Thr Gly Phe Asn Gln Ile Leu Leu Glu Arg His Arg Leu
114          590          595          600
115 Ile His Val Thr Ser Ser Ala Phe Thr Gly Leu Gly
116          605          610
119 <210> SEQ ID NO: 2
120 <211> LENGTH: 2109
121 <212> TYPE: DNA
122 <213> ORGANISM: Homo sapiens
124 <220> FEATURE:
125 <221> NAME/KEY: misc_feature
126 <223> OTHER INFORMATION: Incyte ID No: 1929760CB1
128 <400> SEQUENCE: 2
129 tgatgctctg ggctgtcttc acacttcatt tgggtttcct gcttgctctg agctctacag 60
130 gggaatgggg tagagatggg agccaccttg ggtggagggt ggggaaggta tgttctgccc 120
131 accacagggtg tcatgctcac tcagcctgat gcccaggctg ccaagtataa ggcattggca 180
132 ggggcccagc caccctgggt tccttggctc cctattcccc atctgctccc tgcagtggcc 240
133 ccattgggttc tctgccaatc tcccaggcct gctggatgtg tatggatttg aatcatttcc 300
134 tgacaacagt ctggaacagt tgtgcatcaa ctacgccaat gagaagctgc agcagcattt 360
135 tgtggtcac tacctaaggg ccagcagga ggaatacgca gttgagggcc tggagtggtc 420
136 attcatcaac taccaggaca accagccctg tttggatctc attgaggga gccccatcag 480
137 catctgctcc ctcataaatg aggaatgccg cctcaatcga ccagcagcg cacgccagct 540
138 ccagacacgc attgagactg ccctggcagg cagccctgc ctgggccaca ataagctcag 600
139 ccgggagccc agcttcattg tgggtgatta tgccgggccc gtgcggtacc acacagcagg 660
140 cctggtggag aagaacaagg accctatccc acctgagctg accaggctcc tgcagcaatc 720
141 ccaggacccc ctgctcatgg ggctgtttcc tactaaccac aaagagaaga cccaggagga 780
142 accccctggc cagagcaggg cccctgtgtt gaccgtgggtg tccaagtcca aggcctcact 840
143 ggagcagctt ctgcaggctc tacacagcac cagcccccac tacattcgct gcatcaagcc 900
144 caacagccag ggccaggcgc agacctttct ccaagaggag gtccctgagcc agctggaggc 960
145 ctgtggcctc gtggagacca tccatatcag tgctgctggc ttccccatcc gggctctctca 1020
146 ccgaaacttt gtagaacgat acaagttact aagaaggctt catccttgca catcctctgg 1080
147 ccccgacagc ccatatcctg ccaaagggtt ccctgaatgg tgtccacaca gcgaggaagc 1140
148 cagcttgaa cctctcatcc aggacattct ccacactctg ccggtcctaa ctcaggcagc 1200
149 agccataact ggtgactcgg ctgaggccat gccagcccc atgcaactgtg gcaggacca 1260
150 ggtgttcatg actgactcta tgtggaatgt tctggaatgt gggcgtgccc ggggtgctgga 1320
151 gcagtgtgcc cgctgcatcc aggttggctg gaggcgacac cggcaccgag agcaggagcg 1380
152 gcagtggcgg gccgtcatgc tcatccaggc agccattcgt tcttggttaa ctcgaaaca 1440
153 catccagagg ctgcatgcag ctgccacagt catcaagcgt gcatggcaga agtgagaaat 1500
154 cagaatggcc tgccttgctg cttaaagagt ggatgggtgtg gaagaaaaac acttctctca 1560
155 agctccctgt tccctgagca cctcgccgct gcagaccagg ctcttgaggg caataatccg 1620
156 cctctggccc ctgggactgg tcttgccaa tacggctatg ggtgtaggca gctttcagag 1680
157 gaaattagtg gtctgggctt gcctccagct ccccgagggc agccccagta gctacactgt 1740

```

RAW SEQUENCE LISTING

DATE: 08/26/2002

PATENT APPLICATION: US/09/830,914B

TIME: 14:34:57

Input Set : A:\pf062lusn_seqlist.txt

Output Set: N:\CRF3\08262002\I830914B.raw

158 ccagacagca caagaccagg ctggtgtcac gtccatccga gcgctgcctc agggatcgat 1800
 159 aaagttttcac tgcagaaagt ctccactgcg gtatgctgac atctgccctg aaccttcacc 1860
 160 ctacagcatt acaggcttta atcagattct gctggaaaga cacaggctga tccacgtgac 1920
 161 ctctttctgcc ttcaactgggc tggggtgac cttggtgcct ttgtttccac aaggcctttt 1980
 162 cctgccccct gccttgccaa agacatttaa tcagcacaca gctgccagac tattcccaca 2040
 163 gtgctccaaa tgcacatgaa caacagtgcg ggctccagcc ttccgacccag agccccgtgc 2100
 164 ccagtgcgt 2109

167 <210> SEQ ID NO: 3

168 <211> LENGTH: 1839

169 <212> TYPE: PRT

170 <213> ORGANISM: Caenorhabditis elegans

173 <300> PUBLICATION INFORMATION:

174 <308> DATABASE ACCESSION NO: GenBank ID No: g1279777

W--> 176 <300> PUBLICATION INFORMATION: 3

177 Met Phe Asn Tyr Ser Lys Ile Phe Gln Ile His Arg Ala Cys Ser
 178 1 5 10 15
 179 Pro Asn Arg Lys Lys Ile Gly Ser Ile Gln Tyr Gly Arg Arg Arg
 180 20 25 30
 181 His Ser Trp Gln Gly Pro Val Val Pro Ala Ala Lys Leu Gln Val
 182 35 40 45
 183 Leu Ile Lys Gly Val Arg Ile Trp His Arg His Pro Thr Leu Val
 184 50 55 60
 185 Trp Ile Gly Ala Thr Leu Glu Glu Asp Ile Thr Phe Gln Thr Arg
 186 65 70 75
 187 Asn Val Arg Ile Arg Leu Glu Asp Asp Thr Glu Val Glu Tyr Ala
 188 80 85 90
 189 Ile Lys Ser Leu Asp Gln Leu Pro Phe Leu Arg Asn Pro Ala Phe
 190 95 100 105
 191 Leu Val Gly Lys Asp Asp Leu Thr Leu Leu Ser Tyr Leu His Glu
 192 110 115 120
 193 Pro Ala Val Leu His Asn Leu Gln Val Arg Phe Val Lys Gly Ser
 194 125 130 135
 195 Ser Ile Tyr Thr Tyr Cys Gly Ile Val Leu Val Ala Ile Asn Pro
 196 140 145 150
 197 Tyr Ala Asp Cys Ser His Ile Tyr Gly Glu Glu Ile Ile Gln Val
 198 155 160 165
 199 Tyr Arg Gly Ala Gly Lys Ser Ala Arg Glu Met Asp Pro His Ile
 200 170 175 180
 201 Phe Ala Val Ala Glu Glu Ala His Phe Asp Met Gly Ala Phe Gly
 202 185 190 195
 203 Lys Ser Gln Ser Ile Ile Val Ser Gly Glu Ser Gly Ala Gly Lys
 204 200 205 210
 205 Thr Val Ser Ala Lys Phe Val Met Arg Tyr Leu Ala Ser Val Ala
 206 215 220 225
 207 Ala Ser Lys Thr Arg Asn Gly Gly Thr Thr Ser Ile Glu Ala Arg
 208 230 235 240
 209 Val Leu Ala Ser Asn Pro Ile Met Glu Ser Ile Gly Asn Ala Lys
 210 245 250 255
 211 Thr Ile Arg Asn Asp Asn Ser Ser Arg Phe Gly Lys Phe Ile Gln

> <3097 this and its
 response are
 mandatory
 whenever <308:
 has a response

same even
 in seq 4